# PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXA	MINING AUTHORITY			
To: MICHAEL B. RAY STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.		PCT		
SUITE 600 1100 NEW YORK AVENUE, N.W	7.	,	WRITTEN OPINION	
WASHINGTON, DC 20005-8984			(PCT Rule 66)	
			· · ·	
		Date of Mailing (day/month/year) 01 MAY 2003		
Applicant's or agent's file reference		REPLY DUE within TWO months		
1988.006PC06			om the above date of mailing	
International application No.	International filing date		Priority date (day/month/year)  17 NOVEMBER 2000	
PCT/US01/48113  International Patent Classification (IPC)	16 NOVEMBER 200		17 NOVEMBER 2000	
Please See Supplemental Sheet.	or both national crassin	cation and IrC		
Applicant POLINICAL AND APPLICATION OF THE PROPERTY OF THE PRO				
FOUNDRY NETWORKS, INC.				
1. This written opinion is the first	(first, etc.) dı	rawn by this Interna	tional Preliminary Examining Authority.	
2. This opinion contains indications re	·	-		
I X Basis of the opinion	lating to the lonowing i	techis.		
II Priority			Ann an in Arrabial annies willen	
		noveity, inventive s	tep or industrial applicability	
IV X Lack of unity of inve		h recard to novelty	inventive step or industrial applicability;	
1	tions supporting such st	•	mventive step of mudstrial applicability,	
VI Certain documents ci	ted			
VII Certain defects in the	e international application	on		
VIII Certain observations	on the international app	olication		
3. The applicant is hereby invited to reply to this opinion.				
	When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension., see Rule 66.2(d).			
Also For an additional opportunity to submit amendments, see Rule 66.4.  For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.				
For an informal communication with the examiner, see Rule 66.6.  If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.				
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 17 MARCH 2003				
Name and mailing address of the IPEA/US  Commissioner of Patents and Trademarks		Authorized officer	1. Land 10hal	
Box PCT Washington, D.C. 20231		DANG TON	An Numa Illuda	
Facsimile No. (703) 305-3230		Telephone No.	(ms) \$05-4759	

Form PCT/IPEA/408 (cover sheet) (July 1998)★

International	application	No.
michianona	application	

PCT/US01/43113

1.	Ва	sis of the	opinion			
1.	With	regard to th	ne elements of the interna	ational application:*		
	X	-	ational application as			
		the descri		-		
	X	pages	•		as originally filed	
		pages				
		pages	NONE	, filed with the letter of		
		Lages		, filed with the letter of		
	$\mathbf{x}$	the claim	s:			
	لشت	pages	87-114		, as originally filed	
		pages	NONE	, as amended (together with any		
		pages	NONE		, filed with the demand	
		pages	NONE	, filed with the letter of		
		ء میں				
	X	the drawi	_			
		pages _				
		pages	NONE NONE	C1 1 24 4 14 6	, filed with the demand	
		pages	NONE	, filed with the letter of	***************************************	
	ΓŢ	the seaso	nce listing part of the d	description:		
	X	pages		description.	as originally filed	
				, filed with the letter of		
<ul> <li>2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).</li> </ul>						
3.		_	any <b>nucleotide</b> and/or a basis of the sequence lis	amino acid sequence disclosed in the international apsting:	oplication, the written opinion was	
	Ш	contained	in the international a	application in printed form.		
		filed toge	ther with the internati	ional application in computer readable form.		
	furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the					
	international application as filed has been furnished.					
	The statement that the information recorded in computer readable form is identical to the writen sequence listing has been furnished.					
4.	4. X The amendments have resulted in the cancellation of:					
	_	X the	description, pages	NONE		
	X the claims, Nos. NONE					
			drawings, sheets/fig			
5		1		· · · · · · · · · · · · · · · · · · ·	they have been assisted to	
)	5. This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
×	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".					

International application No. PCT/US01/48113

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been and will not be examined in respect of:				
	the entire international application.			
X	claims Nos. <u>12-137</u>			
	because:			
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify).			
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify).			
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.			
X	no international search report has been established for said claims Nos. <u>12-137</u> .			
A written opinion cannot be drawn due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:				
	the written form has not been furnished or does not comply with the standard.			
	the computer readable form has not been furnished or does not comply with the standard.			

International application No.

PCT/US01/43113 IV. Lack of unity of invention In response to the invitation (Form PCT/IPEA/405) to restrict or pay additional fees the applicant has: restricted the claims. (See Supplemental Sheet) paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees. This Authority found that the requirement of unity of invention is not complied with for the following reasons and chose, according to Rule 68.1 not to invite the applicant to restrict or pay additional fees: 3. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this opinion: all parts. the parts relating to claims Nos. 1-11.

International application No. PCT/US01/48118

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	statement			
	Novelty (N)	Claims	1-11	YES
		Claims	NONE	NO
	Inventive Step (IS)	Claims	4-7	YES
	• ` `	Claims	1-3 and 8-11	NO NO
	Industrial Applicability (IA)	Claims	1-11	YES
	2	Claims	NONE	NO

# 2. citations and explanations

Claims 1-3 and 8-11 lack an inventive step under PCT Article 33(3) as being obvious over Manning et al. Manning et al. disclose nearly all the subject matter now claimed. Note col. 1 lines 54-63 which recite the switch fabric controller for reducing the problems associated with increasing the availability and reliability of the switch fabric of digital switching including the step of mapping the input ports to the output ports of the switch fabric clearly anticipate the digital switch including the switching fabric and blades, i.e. ports, coupling the switching fabric as in claims 1 and 11. Fig. 1 which shows the I/O modules receiving information, whereby each I/O module providing this information to the inputs of the switch fabric including the switch control module receiving control information from the various I/O modules to assist with carrying out the switching scheme clearly anticipate outputting in-band control information to the switching fabric as in claims 1 and 11. Further, col. 3 line 45 to col. 4 line 22 which recite the cell flow processor interconnecting the switch control module using serial data signals clearly anticipate the serial pipes, i.e. serial links, wherein the port outputs serial data streams to the switching fabric as in claims 1 and 10-11 and the packet processor as in claims 8 and 9. Col. 8 lines 21-39 which recite the port mapping memory includes the foreground port mapping data for the foreground switch fabric, such as an nxn cross-point switch fabric clearly anticipate the switching fabric includes cross points as in claims 1 and 3. Col. 5 lines 9-20 which recite the data signals provided from the various modules are provided as communication cells having a header portion and a data portion wherein these communication cells are provided in ATM format, or the like clearly anticipate the cells having a size no grater than 160 bytes and a payload of data no greater than 148 bytes as in claim 7. Manning et al. did not recite the term blades and serial pipes as in claims 1 and 11. However, applicant explains in the specification pages 1 and 2 that blades are merely circuit cards, including ports interconnected by switch fabric and serial pipes are merely serial links. It would have been obvious to substitute the terms blades and serial pipes for circuit cards or ports interconnected by switch fabric and (Continued on Supplemental Sheet.)

International application No.

PCT/US01/48118

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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

## TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

#### CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): H04J 3/02, 3/14, 3/24; H04Q 11/04 and US Cl.: 370/229, 230, 244, 352, 359, 395.1, 395.7, 395.71, 395.72, 398, 412, 413, 414, 419

## IV. LACK OF UNITY OF INVENTION:

- 1. This response is made to a telephone Lack of Unity requirement (see telephone memorandum attached hereto or attached to a prior Written Opinion).
- $V.\ 2.\ REASONED\ STATEMENTS-CITATIONS\ AND\ EXPLANATIONS\ (Continued): serial links respectively,\ because applicant recites in the specification that they are equivalent.$

	NEW	<b>CITATIONS</b>	
NONE			